

State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
PENETRATING EMULSIFIED ASPHALT

Effective January 1, 1994
Revised January 1, 2002

Description. All references to Sections in this Special Provision shall be construed to mean specific Sections in the Standard Specifications for Road and Bridge Construction.

When some penetration is required, penetrating emulsified asphalt may be used as an alternate to the bituminous materials in Section 403 for bituminous surface treatments that will be used on roads with low traffic volumes. Preparation of the penetrating emulsified asphalt shall be as specified in Article 403.07, except that the spraying application temperature shall be between 60-88 °C (140-190 °F). The emulsified asphalt shall meet the following specifications.

<u>Tests</u>	<u>Specification</u>
Viscosity, Saybolt Furol @ 25°C (77°F)	sec: 20 - 500
Sieve Test, retained on 850 µm (No. 20) sieve, max	%: 0.10
Storage Stability Test, 1 day, max	%: 1
Float Test @ 60°C (140°F), min	sec: 150
Stone Coating Test	: 3 min, stone coated thoroughly
Particle Charge	: Negative
pH, min	: 7.3
Distillation Test:	
Residue from Distillation Test to 260°C (500°F), min	%: 65
Oil Distillate, by Volume, max	%: 3
Characteristics of Residue from Distillation Test:	
Penetration @ 25°C (77°F), 100 g, 5 sec, min	0.1 mm: 300